Forming non-reducing saccharides having a trehalose structure as an end unit and having a degree of glucose polymerization of at least 3 from reducing amylaceous saccharides having a degree of glucose polymerization of at least 3;

- (2) Optimum temperature

 About 75 C when incubated in 20 mM acetate buffer

 (pH 5.5);
- (3) Optimum pH About 5.0-5 5 when incubated at 60° C for 60 min;
- (4) pH Stability About 4.5-9.5 when incubated at 25°C for 16 hours;
- Substantially not inactivated even when incubated in an aqueous solution (pH 7.0) at 85°C for 60 min.; and
- Having an amino acid sequence of at least two contiguous amino acid residues in SEQ ID NO:3 and/or SEQ ID NO:4 and being encoded by a chromosomal DNA which hybridizes to a probe having the nucleotide sequence of 5'-AAYYTNTGGTAYTTYA ARGA-3' (SEQ ID NO:7) and a probe having the nucleotide sequence of 5'-CARGARTGGCAYWSNATHAT-3' (SEQ ID NO:8).

Cong

July 1